

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
8 January 2004 (08.01.2004)

PCT

(10) International Publication Number
WO 2004/004394 A1

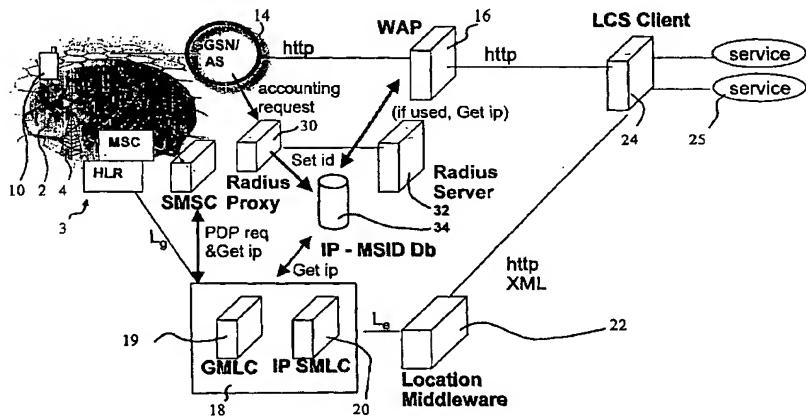
(51) International Patent Classification ⁷ :	H04Q 7/38	(81) Designated States (<i>national</i>): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
(21) International Application Number:	PCT/FI2002/000582	(84) Designated States (<i>regional</i>): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
(22) International Filing Date:	28 June 2002 (28.06.2002)	
(25) Filing Language:	English	
(26) Publication Language:	English	
(71) Applicant (<i>for all designated States except US</i>): NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).		
(72) Inventors; and		
(75) Inventors/Applicants (<i>for US only</i>): KOKKONEN, Petri [FI/FI]; Kalastajanmäki 10 H 113, FIN-02230 Espoo (FI). MAANOJA, Markus [FI/FI]; Vermonpolku 4 C 1, FIN-00370 Helsinki (FI).		
(74) Agent: RUUSKANEN, Juha-Pekka; Page White & Farrer, Runeberginkatu 5, 10th Floor, FIN-00100 Helsinki (FI).		

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMMUNICATING INFORMATION ASSOCIATED WITH PROVISIONING OF A SERVICE, OVER A USER PLANE CONNECTION



WO 2004/004394 A1

(57) Abstract: A method of communicating information associated with provisioning of a service in a communication system and arrangement for the same is disclosed. In the method information about possible associations between an identifier of a mobile user equipment (10) and user plane addresses is stored in storage means (34). A service provisioning entity may receive a request for the service from a client (24) connected to the communication system. Said request includes an identifier of the mobile user equipment. It is verified if a user plane address can be found from the storage means based on the identifier. If such a user plane address is found from the storage means, data associated with provisioning of the requested service is communicated to the mobile user equipment over a user plane connection associated with said address found from the storage means. If no user plane address can be found from the storage means based on the identifier, a new user plane connection is established, and data associated with provisioning of the requested service is communicated to the mobile user equipment over said established user plane connection.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 02/00582

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04Q 7/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 0076171 A1 (NOKIA NETWORKS OY), 14 December 2000 (14.12.00), page 2, line 11 - line 18; page 3, line 15 - line 32, abstract --	1-18
A	WO 0044148 A1 (3COM CORPORATION), 27 July 2000 (27.07.00), abstract --	1-18
E,X	WO 02054811 A1 (SONERA OYJ), 11 July 2002 (11.07.02), page 2, line 12 - page 12, line 36 --	1-18

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"E"	earlier application or patent but published on or after the international filing date
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&"	document member of the same patent family

Date of the actual completion of the international search

27 January 2003

Date of mailing of the international search report

29-01-2003

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. + 46 8 666 02 86

Authorized officer

Elisabet Åselius/mj
Telephone No. + 46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 02/00582

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 0024209 A1 (NOKIA NETWORKS OY), 27 April 2000 (27.04.00), page 3, line 25 - line 32; page 5, line 15 - page 6, line 10, abstract --	1-18
E,A	US 20020150092 A1 (RICHARD BONTEMPI ET AL), 17 October 2002 (17.10.02), see sections (0011) - (0015) -----	1-18

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

30/12/02

PCT/FI 02/00582

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0076171 A1	14/12/00	AU	4603000 A	28/12/00
		EP	1188287 A	20/03/02
		GB	0005378 D	00/00/00
		GB	9913453 D	00/00/00
-----	-----	-----	-----	-----
WO 0044148 A1	27/07/00	AU	3104900 A	07/08/00
		US	6466571 B	15/10/02
-----	-----	-----	-----	-----
WO 02054811 A1	11/07/02	FI	20002757 A	16/06/02
-----	-----	-----	-----	-----
WO 0024209 A1	27/04/00	AU	6343899 A	08/05/00
		FI	108195 B	00/00/00
		FI	982258 A	20/04/00
		US	2001050908 A	13/12/01
-----	-----	-----	-----	-----
US 20020150092 A1	17/10/02	NONE		-----
-----	-----	-----	-----	-----